

OIPE

RAW SEQUENCE LISTING DATE: 07/06/2000
PATENT APPLICATION: US/09/333,534 TIME: 13:58:32

Input Set : D:\ArabJumbo.rpt
Output Set : N:\CRF3\07062000\I333534.raw

ENTERED

2 <110> APPLICANT: Conner, Timothy W.
3 Ruan, Yijun G.
5 <120> TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
6 Plants
8 <130> FILE REFERENCE: 38-21(15404)B
C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/333,534
C--> 10 <141> CURRENT FILING DATE: 1999-06-08
10 <160> NUMBER OF SEQ ID NOS: 18718
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13 <211> LENGTH: 410
14 <212> TYPE: DNA
15 <213> ORGANISM: Arabidopsis thaliana
17 <223> OTHER INFORMATION: unsure at all n locations
18 <223> OTHER INFORMATION: Clone ID: ARABL1-08-Q1-B1-E6
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24 agatcactca gcaccactct catgtactcc ttgcccaga gagatgacat tgaagtgtct 120
W--> 26 gatgagccat tatacgtgc gttcctcaag tctacgggtg ttgatangcc ttacaaagat 180
28 gagcttctct ctaagatgga gtgtgatgga gaaaagggtg tgaaggatat catttatggt 240
W--> 30 ccaggaaaga agaaatatan gttttgtaag catatatcga nacagcgact tcttggtttg 300
W--> 32 ccaantganc naatgagtga cgggaaacac ttatattga cagcattcc cctcaacata 360
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38 <211> LENGTH: 417
39 <212> TYPE: DNA
40 <213> ORGANISM: Arabidopsis thaliana
42 <223> OTHER INFORMATION: unsure at all n locations
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49 atacgaagag aagcttcggc gtgggaatct tgattatgat ccgactatga atcctgtgtc 120
51 tgggttctgt cgggtgtctc gttgtcttcc tctcttaaac cctaattcag agaaaggaga 180
53 gtggacgata actccagttt tacacgatgc tgcgtcagtg gctggttctg gtattggtgg 240
55 ettgcttagt gccgtccatg ctttcaatac agggatcccc tatcttcaaa atcgggtttc 300
W--> 57 cgggtcaaa cggctttcct ttcttgggg ggttccattg cttctagtat attcangtgt 360
59 aagggtctgt ttggaggtt atgcactttc aaagtgttgc caacctgaac aagttac 417
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63 <211> LENGTH: 428
64 <212> TYPE: DNA
65 <213> ORGANISM: Arabidopsis thaliana
67 <223> OTHER INFORMATION: unsure at all n locations
68 <223> OTHER INFORMATION: Clone ID: ARABL1-08-Q1-B1-E4
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74 ccacaaggca ttacacatca catgaggagg accaggaaga gaatacatat gcggctaaag 120
76 tgagcgagaa acaagacttc tcggagagcc agcaagagga aaatgatggt tgggaaactg 180
78 tgggcaaaaa gaaacctgca aggcaatcac ataaggtcca gaaggagcaa tggcaagatt 240

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80 acaaacgccc agcaagtga caacactact cagacgaagt tgaaacttat ggaaacctag 300
W--> 82 aaacctcaca actagagctc tcaagtctct canaagcctn caacaaactg tgggaactcc 360
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103 atcaatggcg acaccatagg ttagttccgc tggaggatta ctagcaatgc tcaacgagcc 180
105 tcatcctggt ttgaagcttc atgcgctctc taacctcaac aatttggttg accaattctg 240
107 gcctgagatc tccactagtg tcccacatcat tgagagttaa tatgaagatg aagaattcga 300
W--> 109 tctgcatcaa agacagcttg ctgctttgct ggtctctaaag gntttcnant actgggcgaa 360
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129 <210> SEQ ID NO: 6
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131 <212> TYPE: DNA
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W--> 143 gacaagtctg gatcanactt tcatattacc ttcaggccaa atcagcagct tgatagaaat 180
145 aatgttggtt tcggaaagct aattcaaggg aaagagatat tgaaaaaaat tgaacgtgtg 240
W--> 147 ggtgatgagg aangtaaacc tactgtcagc gtgaagataa tccgttggtg anantattct 300
W--> 149 ggagataana agaaaagtga cggtaaaaaa atggaaagca caagaagtct ttaagagtta 360
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155 <211> LENGTH: 261
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165 tctgagctcg aacatggagc ctcaaaaaa ggaaaagctt gaataagaat gagactatga 120

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167 acatggatct ttgtgtgccc atgggtgagc gaagtaaaga aggagataaa gagatacttt 180
169 gaagagttct ttgttagata atttctttaa tggacatgag atgagagttt gttttttttc 240
171 tticaaaaaa aaaaaaaaaa a 261
174 <210> SEQ ID NO: 8
175 <211> LENGTH: 424
176 <212> TYPE: DNA
177 <213> ORGANISM: Arabidopsis thaliana
179 <223> OTHER INFORMATION: unsure at all n locations
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186 ctacagagca accatgctaa cttgcgcctt ctcccaaaat cttatccact aatctcggta 120
188 aggaaagtga tgttgcaaaa atggtgaaga aagggaagtg gttttctgct atcaaaaggg 180
W--> 190 tttttactcc acattccnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240
W--> 192 nnnnnnnnnn nnnnnnnnt tttgggaagc taaggcatgg cgagaccaat tcatttcttc 300
W--> 194 ccattctcag agagcctagt agtatcgaaa agatnttggg cganctgaa aaagattaca 360
W--> 196 atccttgtcc tcaagctcc cnatccnnga tngacaaaa caatatgaag cctctctcct 420
198 ccga 424
201 <210> SEQ ID NO: 9
202 <211> LENGTH: 422
203 <212> TYPE: DNA
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213 gattcagaga tgtgtgcaca ttggctgacg gattggctga gacgtataga gggttctgca 120
215 taccaccacg gccagataag agcgtcgtag agagccaaat aatgcagaaa caagagtctg 180
217 tggagcagag aagagtgtga ttggagaaat acttgccgag gctaagtga caccctgtta 240
219 ttaggaaacg tgacgagttg aaagtgttct ttcaggtgca agggaagttg ccactaccaa 300
221 tgagtactga tgtggcctct cggatgttgg atggggcggt gaagctccca aaacagtgtg 360
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233 <223> OTHER INFORMATION: unsure at all n locations
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236 <400> SEQUENCE: 10
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240 aggtcaaaaga tggcggtcct tgttgattc aaatgatgga ccgatcaacc ccaaccttct 120
242 catatcaagc ttggaggcga gatcctgaga atgggcctcc ccagtaccgt agcagaactg 180
W--> 244 tgtttgagga tgccactccc ganatggta gggacttctt ttgggatgat gagttccggt 240
W--> 246 ccaagtggga tgatatgctt ttgtattctt ctactctcga gcgttgcaan gacacgggca 300
W--> 248 ctatggttgt gcaatgggtg cgaaggttcc cttcttttgt ancgacaggg aatatattat 360
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252 acccgctctg acct 434
255 <210> SEQ ID NO: 11

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269 ccatgggtgga acctatggat tctgaggttt ttactgaaag tcttagggct tctctttcgc 180
271 attggagaga agagggggaag aagggaattt ggataaaagct gcctcttgga ttggctaata 240
273 ttgtggagggc tgcagttagt gaaaggattt tagatatcac cagcccgagg cctgagtact 300
275 tgatgccttg tatcttggga tctcctgaaa actcctgata caatcccaag ccaaatgcct 360
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279 ctcc 424
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283 <211> LENGTH: 411
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294 tctccgcgcg agacaacacc attaacatct gtcctgttg cgggagtttc tagttccatt 120
296 agccaagata agccaaaacc ttgtgtggtt actcctggtc aactgctgca gtctggatct 180
298 tctgcagtct ctttgcctcc accctcgaca aatgctgata aagatgttga ggtggttcaa 240
300 gtatcgtcat cagctggggt ggaacaatct gttccagtta catccgaagc ccaacctcca 300
302 atactgccat tgccttcctc tgcaagacca actcagaagc caaacgggca ttctttccca 360
W--> 304 aatcatnatg ggtaaaaggg acttggaata ggacaaggaa aaggancagg g 411
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308 <211> LENGTH: 534
309 <212> TYPE: DNA
310 <213> ORGANISM: Arabidopsis thaliana
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W--> 321 ttnaaaagtc cgggaaattt gggaaatttg gcaatcctgg tccaataaga agaanggaat 180
323 cgctaatacct atcaagtga agggctattc ccaagaactt tctcgaagt atctaaaaga 240
325 agcaacctcc tggttgccaa aatttgttct tctgtctctc aaacgttggg ccccaatccg 300
W--> 327 taagantcct aacaatcctc ctccctgggt taattgaaga aagctggctg cgtttacaaa 360
W--> 329 ctggatggan ttggtgtgtt gggcaatggt tgaactccaa gttttcccaa cgggtccgaa 420
W--> 331 ttcaaccaan ttgaatggtt tgaatttctt tggattctcn aaaaatcctg ncccctgggtg 480
W--> 333 aaatnggtng gttnaaacct tcnccctgg ttttgggncc aaaccggaat gcaa 534
336 <210> SEQ ID NO: 14
337 <211> LENGTH: 421
338 <212> TYPE: DNA
339 <213> ORGANISM: Arabidopsis thaliana
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350 tccccatcta tatccaatcc caacggggaa tagaagcgag tcgcttccg ctggcttata 180
352 gtcctagtct tttagcttat gtaatggtcg gccttcctac acgcacgcgc ccgccggaat 240
354 gcctccttgt tttagttttg gacgaagcca agccgataca tacaatatac gataggcgaa 300
W--> 356 ggaaagaccc ccattttatg aatagcgccct gggcaagtgt gatngangat tggagaagta 360
358 cttaataact ccaactgaaa gggaaaaaatt gggaaagaaa aaggcttggg atggatttaa 420
360 g 421
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364 <211> LENGTH: 428
365 <212> TYPE: DNA
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377 gcatcggtga atatgaattg cgaagtgtgt cagctaaagg aactggaagt ggaatccttc 180
379 gagatacgcg aagttttgcg ctgcattcta catacgattg tctttcatcg tgcgcttgg 240
381 cttatccgcc cttaaagatat ttgatttggg agcctttttg agattactta tggtaaatgc 300
383 gggtgaaatt tgaagtggga gaaagaaaat ccgatgaaa gattgagcaa ttcaattaaa 360
385 ctgggattga agaaacaacc aaacaaaaag aatcaaattg tccaaccgtc caagaagtca 420
387 aaaagcaa 428
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404 tctttggttt ctggcgatg ggagacgaga agccggtgat tgttatggcc aatcgagaaa 180
W--> 406 gagatcgaga gcttctgatt ccgctcgctg attcggcgca caaagacgac ggnnnnnnnn 240
W--> 408 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnngca tcaatccagc cagcagactt 300
410 taagcttgtt cattaggggc tgggcgtcaa agaagttcat gacaggctgt gttatcctac 360
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417 <212> TYPE: DNA
418 <213> ORGANISM: Arabidopsis thaliana
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427 attggccctc aaccggcctg g 81
430 <210> SEQ ID NO: 18

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

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L:10 M:270 C: Current Application Number differs, Replaced Current Application No
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:26 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1
L:26 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:1
L:26 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:1
L:26 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:1
L:30 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1
L:30 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:1
L:30 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:1
M:340 Repeated in SeqNo=1
L:32 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1
L:32 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:1
L:32 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:1
L:34 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1
L:34 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:1
L:34 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:1
L:57 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2
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L:72 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3
L:72 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:3
L:72 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:3
L:72 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:3
L:82 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3
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M:340 Repeated in SeqNo=3
L:84 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3
L:84 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:3
L:84 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:3
L:109 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:4
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L:111 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:4
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M:340 Repeated in SeqNo=4
L:124 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:5
L:124 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:5
L:124 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:5
L:124 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:5
L:141 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:6
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 L:147 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:6
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 L:151 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:6
 L:151 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:6
 L:151 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:6
 L:190 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:8
 L:190 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:8
 L:190 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:8
 M:340 Repeated in SeqNo=8
 L:223 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:9
 L:238 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:10
 M:340 Repeated in SeqNo=10
 L:277 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:11
 L:304 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:12
 L:317 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:13
 M:340 Repeated in SeqNo=13
 L:356 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:14
 L:373 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:15
 L:406 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:16
 M:340 Repeated in SeqNo=16
 L:425 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:17
 L:452 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:18
 L:513 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:21
 M:340 Repeated in SeqNo=21
 L:538 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:22
 M:340 Repeated in SeqNo=22
 L:563 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:23
 M:340 Repeated in SeqNo=23
 L:600 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:24
 L:615 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:25
 M:340 Repeated in SeqNo=25
 L:646 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:26
 M:340 Repeated in SeqNo=26
 L:675 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:27
 L:700 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:28
 L:713 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:29
 M:340 Repeated in SeqNo=29
 L:748 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:30
 M:340 Repeated in SeqNo=30
 L:775 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:31
 M:340 Repeated in SeqNo=31
 L:802 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:32

VERIFICATION SUMMARY

DATE: 07/06/2000

PATENT APPLICATION: US/09/333,534

TIME: 13:58:33

Input Set : D:\ArabJumbo.rpt

Output Set: N:\CRF3\07062000\I333534.raw

L:827 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:33
L:842 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:34
M:340 Repeated in SeqNo=34
L:869 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:35
L:896 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:36